

Performance 90 Single Stage Furnace

FLEXIBILITY

- Indoor combustion air (1 pipe only)
- 40" (1016mm) high with narrower cabinets, for more flexibility in tight locations
- Factory shipped for natural gas, with Propane Gas conversion kits available
- Four position – upflow/downflow/horizontal installation
- Vent pipe can be run horizontally or vertically
- Internal condensate drain system

SERVICE

- Self diagnostics
- Entire blower assembly mounted on rails

COMFORT

- Adjustable timed blower off delay
- 24 and 115 VAC humidifier terminal
- Electronic air cleaner terminal

EFFICIENCY

- 90% AFUE efficiency range
- Single stage gas valve operation
- Single stage integrated control
- Multispeed, prelubricated PSC motors
- Induced draft blower
- In-shot burners

QUALITY

- RPJ III Aluminized steel heat exchanger
- Stainless steel secondary heat exchanger
- High temperature limit control prevents overheating
- Direct ignition with Silicon Nitride ignitor
- Flame roll-out sensors standard
- Louvered doors

WARRANTY *

- 20 year heat exchanger limited warranty
- 5 year parts limited warranty
 - With timely registration, an additional 5 year parts limited warranty

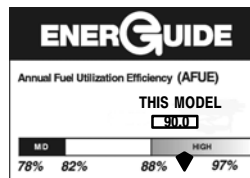
* Applies to original purchaser/homeowner, some limitations may apply. See warranty certificate for complete details.



Illustrations and photographs are only representative.
Some product models may vary.

⚠ WARNING

This furnace is not designed for use in mobile homes, trailers, or recreational vehicles. Such use could result in property damage and/or death.



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.

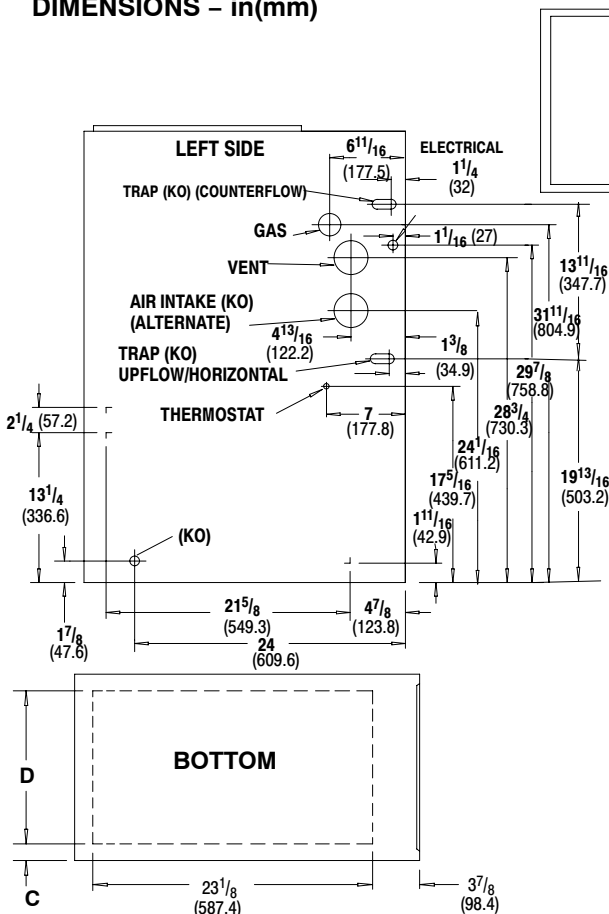
UPFLOW/DOWNFLOW/HORIZONTAL (NATURAL GAS)							
Model Number	Input (MBTUH)	Efficiency AFUE	Cooling Capacity @ .5 in wc (125 Pa)	Dimensions H x W x D		Shipping Wt.	
				Inches	Millimeters	Lbs	Kg
N9MP1040B08C	40	90.0	1.5 – 2.0 TON	40 x 15 ¹ / ₂ x 29	1016 x 394 x 737	139	63
N9MP1050B12C	50	90.0	1.5 – 3.0 TON	40 x 15 ¹ / ₂ x 29	1016 x 394 x 737	139	63
N9MP1060B12C	60	90.0	1.5 – 3.0 TON	40 x 15 ¹ / ₂ x 29	1016 x 394 x 737	140	64
N9MP1075B12C	75	90.0	1.5 – 3.0 TON	40 x 15 ¹ / ₂ x 29	1016 x 394 x 737	140	64
N9MP1080F16C	80	90.0	2.5 – 4.0 TON	40 x 19 ¹ / ₈ x 29	1016 x 486 x 737	160	73
N9MP1100F14C	100	90.0	2.0 – 3.5 TON	40 x 19 ¹ / ₈ x 29	1016 x 486 x 737	160	73
N9MP1100J20C	100	90.0	3.5 – 5.0 TON	40 x 22 ³ / ₄ x 29	1016 x 578 x 737	180	82
N9MP1125J20C	125	90.0	3.5 – 5.0 TON	40 x 22 ³ / ₄ x 29	1016 x 578 x 737	185	84

FURNACE SPECIFICATIONS

Model Number – NATURAL GAS	N9MP1040B08	N9MP1050B12	N9MP1060B12	N9MP1075B12	N9MP1080F16	N9MP1100F14	N9MP1100J20	N9MP1125J20
INPUT – (BTUH)	40,000	50,000	60,000	75,000	80,000	100,000	100,000	125,000
HTG. CAP. (BTUH)	36,000	44,000	54,000	69,000	73,000	91,000	91,000	116,000
AFUE % (ICS)	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
ALTERNATE INPUT – BTUH	NA	40,000	NA	60,000	NA	80,000	80,000	100,000
ALTERNATE OUTPUT – BTUH	NA	36,400	NA	54,000	NA	72,000	72,000	90,500
TEMP. RISE DEGREES (°F/°C)	40–70/22–38	35–65/19–46	40–70/22–38	40–70/22–38	35–65/19–46	40–70/22–38	40–70/22–38	40–70/22–38
VOLTS/HZ/PH	115/1/60							
MIN./MAX. VOLTAGE	104/127							
RATING PLATE AMPS.	8.4	12.9	7.2	10.1	12.9	10.1	14.4	15.0
TRANSFORMER (V.A.)	40							
GAS PIPE SIZE (IN.)	1/2							
VENT SIZE OD – in(mm) *	2 or 3 (50.8 or 76.2) OD				3 (76.2) OD			
COOLING CAP.	2.0	3.0	3.0	3.0	4.0	3.5	5	5
HIGH ALTITUDE PRESS SWITCH	NA	1013803	NA	1013803	1013812	1013803	1013803	1013157
FILTER SIZE required – in(mm)	16 x 25 x 1 (406 x 635 x 25) (1)				16X25X1 (406x635x25)(1)		16 x 25 x 1 (406 xx 635 x 25)(2)	
DIMENSIONS H x W x D – in(mm)	40 x 15 1/2 x 29 (1016 x 394 x 737)				40 x 19 1/8 x 29 (1016 x 486 x 737)		40 x 22 3/4 x 29 (1016 x 578 x 737)	
WEIGHT – Lbs.(Kg.)	139(63)	139(63)	140(64)	140(64)	160(73)	160(73)	180(82)	185(82)

* Vent size may vary depending on length, number of elbows. See Installation Instructions.

DIMENSIONS – in(mm)



Unit Capacity	Cabinet		Bottom	
	A	B	C	D
N9MP1040B08	15 1/2 (394)	14 (356)	1 3/8 (35)	12 5/8 (321)
N9MP1050B12	15 1/2 (394)	14 (356)	1 3/8 (35)	12 5/8 (321)
N9MP1060B12	15 1/2 (394)	14 (356)	1 3/8 (35)	12 5/8 (321)
N9MP1075B12	15 1/2 (394)	14 (356)	1 3/8 (35)	12 5/8 (321)
N9MP1080F16	19 1/8 (486)	17 5/8 (448)	2 1/8 (54)	14 3/4 (375)
N9MP1100F14	19 1/8 (486)	17 5/8 (448)	2 1/8 (54)	14 3/4 (375)
N9MP1100J20	22 3/4 (578)	21 1/4 (540)	1 5/16 (49)	18 3/4 (476)
N9MP1125J20	22 3/4 (578)	21 1/4 (540)	1 5/16 (49)	18 3/4 (476)

KO = KnockOut

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS FOR ALL UNITS

REAR	0
FRONT (combustion air openings in furnace and in structure)	3" (76.2)
Required For Service	*24" (609.6)
ALL SIDES OF SUPPLY PLENUM	1" (25.4)
SIDES	0
VENT	0
TOP OF FURNACE	1" (25.4)

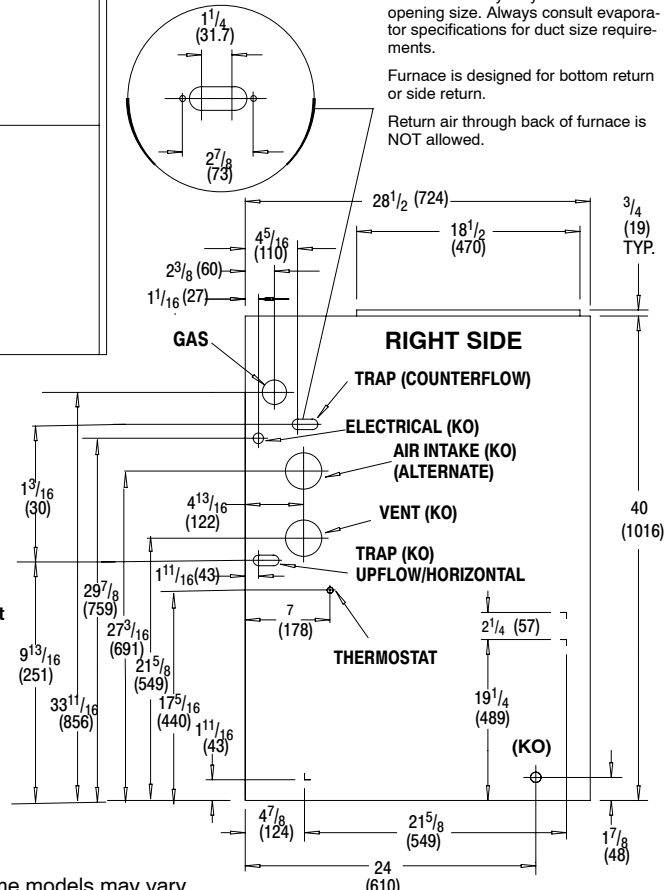
*30" (762mm) clearance recommended for furnace removal.

Horizontal position: Line contact is permissible only between lines formed by intersections of top and two sides of furnace jacket, and building joists, studs or framing.

NOTE: Evaporator "A" coil drain pan dimensions may vary from furnace duct opening size. Always consult evaporator specifications for duct size requirements.

Furnace is designed for bottom return or side return.

Return air through back of furnace is NOT allowed.



Drawing is representative, some models may vary.

BLOWER PERFORMANCE (N9MP1)

Model Number - NATURAL GAS	040B08 (1)(5)	050B12 (1)(5)	060B12 (1)(5)	075B12 (1)(5)	080F16 (1)(5)	100F14 (1)(5)	100J20 (2)(3)(5)	125J20 (2)(4)(5)
BLOWER SIZE INCHES (D x W)	11-8	11-8	11-8	11-8	11-10	11-10	11-10	11-10
MOTOR H.P. (TYPE)	1/4 PSC	1/2 PSC	1/2 PSC	1/2 PSC	1/2 PSC	1/2 PSC	3/4 PSC	3/4 PSC
MOTOR SPEEDS	3	4	4	4	4	4	4	4

AIRFLOW DATA

N9MP1040B08 (1)(5)

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	655	309	---	---	825	389	1009	476
	0.20	50	612	289	---	---	786	371	981	463
	0.30	75	560	264	---	---	744	351	944	445
	0.40	100	508	240	---	---	700	330	897	423
	0.50	125	457	216	---	---	647	305	841	397
	0.60	149	405	191	---	---	585	276	785	370
	0.70	174	343	162	---	---	519	245	719	339
	0.80	199	286	135	---	---	458	216	637	301
	0.90	224	204	96	---	---	382	180	561	265
	1.00	249	---	---	---	---	292	138	478	226

N9MP1080F16 (1)(5)

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	823	388	1109	523	1527	721	1850	873
	0.20	50	795	375	1087	513	1482	699	1791	845
	0.30	75	747	353	1056	498	1426	673	1720	812
	0.40	100	677	319	1016	479	1382	652	1648	778
	0.50	125	617	291	970	458	1317	622	1575	743
	0.60	149	544	257	854	403	1245	588	1485	701
	0.70	174	---	---	763	360	1154	545	1401	661
	0.80	199	---	---	652	308	1043	492	1284	606
	0.90	224	---	---	---	---	905	427	1161	548
	1.00	249	---	---	---	---	737	348	1028	485

N9MP1050B12 (1)(5)

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	826	390	1083	511	1301	614	1408	664
	0.20	50	804	379	1050	496	1242	586	1347	636
	0.30	75	770	363	1028	485	1195	564	1295	611
	0.40	100	735	347	985	465	1153	544	1237	584
	0.50	125	698	329	952	449	1093	516	1183	558
	0.60	149	657	310	909	429	1040	491	1118	528
	0.70	174	---	---	863	407	935	441	1053	497
	0.80	199	---	---	812	383	865	408	976	461
	0.90	224	---	---	---	---	802	378	887	419
	1.00	249	---	---	---	---	720	340	787	371

N9MP1100F14 (1)(5)

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	700	330	912	430	1209	571	1550	731
	0.20	50	660	311	884	417	1171	553	1492	704
	0.30	75	616	291	843	398	1139	538	1434	677
	0.40	100	575	271	790	373	1088	513	1378	650
	0.50	125	528	249	735	347	1040	491	1317	622
	0.60	149	472	223	677	319	979	462	1247	588
	0.70	174	---	---	608	287	909	429	1161	548
	0.80	199	---	---	528	249	827	390	1058	499
	0.90	224	---	---	---	---	733	346	932	440
	1.00	249	---	---	---	---	624	294	778	367

N9MP1060F12 (1)(5)

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	706	333	895	422	1158	546	1439	679
	0.20	50	675	319	876	413	1137	537	1395	658
	0.30	75	640	302	850	401	1102	520	1345	635
	0.40	100	599	283	820	387	1066	503	1288	608
	0.50	125	569	269	786	371	1022	482	1228	580
	0.60	149	535	252	743	351	967	456	1159	547
	0.70	174	494	233	694	328	895	422	1080	510
	0.80	199	451	213	640	302	813	384	993	469
	0.90	224	399	188	585	276	730	345	894	422
	1.00	249	343	162	522	246	646	305	785	370

N9MP1100J20 (1)(5)

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	1682	794	1870	882	2081	982	2263	1068
	0.20	50	1654	781	1826	862	2031	958	2193	1035
	0.30	75	1597	754	1775	838	1963	926	2165	1022
	0.40	100	1547	730	1719	811	1899	896	2056	970
	0.50	125	1498	707	1653	780	1825	861	1978	933
	0.60	149	1428	674	1583	747	1737	820	1854	875
	0.70	174	1355	639	1503	709	1650	779	1757	829
	0.80	199	1267	598	1392	657	1548	731	1644	776
	0.90	224	---	---	1266	597	1428	674	1515	715
	1.00	249	---	---	---	---	---	---	1351	638

N9MP1075B12 (1)(5)

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	706	333	917	433	1163	549	1368	646
	0.20	50	677	319	875	413	1120	529	1319	622
	0.30	75	636	300	840	396	1076	508	1263	596
	0.40	100	595	281	812	383	1031	487	1202	567
	0.50	125	546	258	766	361	987	466	1148	542
	0.60	149	490	231	702	331	889	420	1077	508
	0.70	174	---	---	630	297	821	387	989	467
	0.80	199	---	---	550	260	750	354	914	431
	0.90	224	---	---	462	218	676	319	833	393
	1.00	249	---	---	---	---	601	284	747	353

N9MP1125J20 (2)(5) * Denotes Brand

External Static Pressure (in wc/Pa)	Speed Tap		Low		Med L		Med H		Hi	
	in wc	Pa	CFM	L/s	CFM	L/s	CFM	L/s	CFM	L/s
	0.10	25	1720	812	1910	901	2127	1004	2315	1092
	0.20	50	1686	796	1881	888	2087	985	2268	1070
	0.30	75	1644	776	1833	865	2024	955	2201	1039
	0.40	100	1600	755	1777	839	1961	925	2131	1006
	0.50	125	1533	723	1720	812	1891	892	2029	958
	0.60	149	1494	705	1647	777	1804	851	1948	919
	0.70	174	1413	667	1571	741	1708	806	1820	859
	0.80	199	1306	616	1470	694	1604	757	1730	816
	0.90	224	---	---	1349	637	1484	700	1614	762
	1.00	249	---	---	---	---	1328	627	1430	675

NOTE: (1) Data based on Bottom Only or One Side return.

(2) Data based on Both Sides or Bottom plus One Side

(3) 100J20 Reduce airflow by 5% if Bottom Only return

(4) 125J20 Reduce airflow by 5% if Bottom Only return.

(5) Gray area is above maximum temperature rise range.

CFM - Cubic Feet Per Minute (M/s - Meters per second) airflow.

Filter required for each return-air inlet.

Airflow performance includes 1" (25.4mm) washable [600 FPM (3.0 M/s) max] filter media.

NOTE: Disposable filters are typically rated at 300 FPM (1.5 M/s). These filters only allow half the airflow when compared to 600 FPM (3.0 M/s) filters.

MAX CFM (L/s) for Factory Washable Filters

Filter Size (in/mm)	CFM	L/s
14" X 25" / 356 x 635	1400	661
16" X 25" / 406 x 635	1600	755
20" X 25" / 508 x 635	2000	944
24" X 25" / 610 x 635	2500	1180
Max CFM based on 600 FPM (3.0 M/s)		

MODEL NUMBER IDENTIFICATION GUIDE

N		9	MP		1	0 75		F	1 2		C	#
Brand Identifier N = Non-Brand Specific (Generic)											Engineering Rev. Denotes minor change	
Model Efficiency 8 = Non-Condensing, 80+% Gas Furnace 9 = Condensing, 90+% Gas Furnace											Marketing Digit Denotes major change	
Installation Configuration UP = Upflow DN = Downflow UH = Upflow/Horizontal HZ = Horizontal DH = Downflow/Horizontal MP = Multiposition, Up/Down/Horizontal											Cooling Airflow 08 = 800 CFM 12 = 1200 CFM 14 = 1400 CFM 16 = 1600 CFM 20 = 2000 CFM	
Major Design Feature 1 = One (Single) Pipe N = Single Stage 2 = Two Pipe P = PVC Vent D = 1 or 2 Pipe T = Two Stage L = Low NOx V = Variable Speed											Cabinet Width B = 15.5" Wide J = 22.8" Wide F = 19.1" Wide L = 24.5" Wide	
Input (Nominal MBTUH)												

ACCESSORIES

Model Number	Description	Used With Models
NAHA004WK	Twinning Kit – Allows operation of two identical-size model furnaces.	All N9MP1 Furnaces
NAHA001LP (1172958**)	Gas Conversion Kits – Natural gas to Propane conversion kit. Allows field conversion to Propane gas. Includes Propane Pressure Switch.	N9MP1050/075/100/125 Models
NAHA001NG (1172960**)	Gas Conversion Kits – Propane to natural gas conversion kit. Allows field conversion to natural gas.	N9MP1050/075/100/125 Models
NAHA003LP (1174906**)	Gas Conversion Kits – Natural gas to Propane conversion Kit. Allows field conversion to Propane gas for 80k BTUH and Alternate input models	N9MP1040/060/080 and Alternate Input Models
NAHA004NG (1174907**)	Gas Conversion Kits – Propane to natural gas conversion kit. Allows field conversion to natural gas for 80k BTUH and Alternate input models	N9MP1040/060/080 and Alternate Input Models
NAHA001AL	Alternate Input Kit (Nat Gas). Derates input by 20%	N9MP1050/075/100/125 Models
NAHA002AL	Alternate Input Kit (Propane Gas). Derates input by 20%	N9MP1050/075/100/125 Models
NAHA001FF	Filter Kits – External filter frame. 16" x 25"	Side Return (All Furnaces) Bottom Return
NAHA001FP	External filter frame. 16" x 25" (Bulk Pack Kit – Qty 10)	(All "F" 19 1/8" Furnaces under 1600 CFM)
NAHA002FF	Filter Kits – Bottom return filter frame kit 20" x 25"	(All "J" 22 3/4" Furnaces)
NAHA002FP	Bottom return filter frame kit 20" x 25" (Bulk Pack Kit – Qty 10)	
NAHA003FF	Filter Kits – Bottom or side return filter frame kit 14" x 25"	(All "B" 15 1/2" Furnaces)
NAHA003FP	Bottom or side return filter frame kit 14" x 25" (Bulk Pack Kit – Qty 10)	
NAHA001TK	Duct Standoff Filter Kit. To adapt 20" x 25" filter for single side return.	Side Return (All single return applications with 1600 CFM or greater) Bottom Return (All "F" 19 1/8" Furnaces under 1600 CFM)
NAHA001NK (612833**)	Neutralizer Kit – Condensate neutralizer kit for condensing gas furnaces	ALL 90+ FURNACES IF REQUIRED
NAHH001SB	Combustible Floor Subbase – Furnace ONLY: All 15 1/2" wide furnace models	N9MP1/040/050/075
NAHH002SB	Combustible Floor Subbase – Furnace ONLY: All 19 1/4" wide furnace models	N9MP1080/100F
NAHH003SB	Combustible Floor Subbase – Furnace ONLY: All 22 3/4" wide furnace models	N9MP1100J, N9MP1125J20
NAHH004SB	Subbase Furnace w/ 15 1/2" cased coil	N9MP1040/050/060/075 Counterflow furnace w/15 1/2" cased coil
NAHH005SB	Subbase Furnace w/ 19 1/4" cased coil	N9MP1080/100F Counterflow furnace w/ 19 1/4" cased coil
NAHH006SB	Subbase Furnace w/ 22 3/4" cased coil	N9MP1100J, N9MP1125 Counterflow furnace w/ 22 3/4" cased coil
NAHA001CA	Coil Adapter for Downflow Furnaces	All Downflow Models
1013803**	High Altitude Pressure Switch Kit (1 Pressure Switch)	N9MP1050, 075 & 100
1013812**	High Altitude Pressure Switch Kit (1 Pressure Switch)	N9MP1080
1013157**	High Altitude Pressure Switch Kit (2 Pressure Switches)	N9MP1125
NAHA001LV	Long Vent Kit	N9MP1100F14
NAHA002LV	Long Vent Kit	N9MP1100J20
NAHA003LV	High Altitude Long Vent Kit	N9MP1100F14, N9MP1100J20
NAHA002WL	To replace Warning Labels, Operating Instructions & Wiring Labels on Blower Door when needed	All N9MP1 Furnaces

** Must be ordered from Service Parts